

# EXHIBIT C

Donald R. Ostergard, M.D.

Page 1

UNITED STATES DISTRICT COURT  
SOUTHERN DISTRICT OF WEST VIRGINIA  
AT CHARLESTON

Master File No. 2:12-MD-02327 MDL 2327

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DEPOSITION OF  
DONALD R. OSTERGARD, M.D.

March 9, 2016

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IN RE: ETHICON, INC., PELVIC REPAIR      JOSEPH R. GOODWIN  
SYSTEM PRODUCTS LIABILITY LITIGATION      U.S. DISTRICT JUDGE

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THIS DOCUMENT RELATES TO THE FOLLOWING CASES  
IN WAVE 1 OF MDL 200:

HARRIET BEACH v. ETHICON, INC., ET AL.  
Civil Action No. 2:12-cv-00476  
SHARON BOGGS, ET AL. v. ETHICON, INC., ET AL.  
Civil Action No. 2:12-cv-00368  
ROBIN BRIDGES v. ETHICON, INC., ET AL.  
Civil Action No. 2:12-cv-00651  
ANGELA COLEMAN, ET AL. v. ETHICON, INC., ET AL.  
Civil Action No. 2:12-cv-01267

AMANDA DELEON, ET AL. v. ETHICON, INC., ET AL.  
Civil Action No. 2:12-cv-00358  
DENNIS W. DIXON, ESTATE OF VIRGINIA DIXON,  
Deceased v. ETHICON, INC., ET AL.  
Civil Action No. 2:12-cv-01081  
DINA DESTEFANO-RASTON, ET AL. v. ETHICON, INC.,  
ET AL.  
Civil Action No. 2:12-cv-01299  
PAULA FISK v. ETHICON, INC., ET AL.  
Civil Action No. 2:12-cv-00848

JACKIE FRYE v. ETHICON, INC., ET AL.  
Civil Action No. 2:12-cv-1004  
TERESA GEORGILAKIS, ET AL. v. ETHICON, ET AL.  
Civil Action No. 2:12-cv-00829

ROSE GOMEZ, ET AL. v. ETHICON, ET AL.  
Civil Action No. 2:12-cv-00344

Donald R. Ostergard, M.D.

Page 2

1 LOUISE GRABOWSKI v. ETHICON, INC., ET AL.  
Civil Action No. 2:12-cv-00683

2  
PAMELA GRAY-WHEELER v. ETHICON, INC., ET AL.  
3 Civil Action No. 2:12-cv-00455

4 DAWNA HANKINS v. ETHICON, INC., ET AL.  
Civil Action No. 2:12-cv-00369

5  
JEANIE HOLMES, ET AL. v. ETHICON, INC., ET AL.  
6 Civil Action No. 2:12-cv-01206  
7 NANCY HOOPER, ET AL. v. ETHICON, INC., ET AL.  
Civil Action No. 2:12-cv-00493

8  
WILMA JOHNSON v. ETHICON, INC., ET AL.  
9 Civil Action No. 2:12-cv-00809  
10 BEVERLY KIVEL v. ETHICON, INC., ET AL.  
Civil Action No. 2:12-cv-00591

11  
PAUL KRIZ, ET AL. v. ETHICON, INC., ET AL.  
12 Civil Action No. 2:12-cv-00938  
13 DEBORAH LOZANO, ET AL. v. ETHICON, INC., ET AL.  
Civil Action No. 2:12-cv-00347

14  
BARBARA MASSICOT v. ETHICON, INC., ET AL.  
15 Civil Action No. 2:12-cv-00856  
16 EDITH NOLAN v ETHICON, INC., ET AL.  
Civil Action No. 2:12-cv-00864

17  
NOEMI PADILLA v. ETHICON, INC., ET AL.  
18 Civil Action No. 2:12-cv-0567  
19 STACEY PANGBORN v. ETHICON, INC., ET AL.  
Civil Action No. 2:12-cv-01198

20  
MIRANDA PATTERSON v. ETHICON, INC., ET AL.  
21 Civil Action No. 2:12-cv-00481  
22 JENNIFER REYES, ET AL. v. ETHICON, INC., ET AL.  
Civil Action No. 2:12-cv-00939

23  
JENNIFER SIKES, ET AL. v. ETHICON, INC., ET AL.  
24 Civil Action No. 2:12-cv-00501  
25

Donald R. Ostergard, M.D.

Page 3

1 CARRIE SMITH v. ETHICON, INC., ET AL.  
Civil Action No. 2:12-cv-00258

2  
JANET SMITH, ET AL. v. ETHICON, INC., ET AL.  
3 Civil Action No. 2:12-cv-00861

4 MARGARET STUBBLEFIELD v. ETHICON, INC., ET AL.  
Civil Action No. 2:12-cv-00842

5  
MARY LEE SWEENEY, ET AL. v. ETHICON, INC., ET AL.  
6 Civil Action No. 2:12-cv-00807

7 KRYSTAL TEASLEY v. ETHICON, INC., ET AL.  
Civil Action No. 2:12-cv-00500

8  
SUSAN THAMAN v. ETHICON, INC., ET AL.  
9 Civil Action No. 2:12-cv-00279

10 PATRICIA TYLER v. ETHICON, INC., ET AL.  
Civil Action No. 2:12-cv-00469

11  
CATHY WARLICK, ET AL. v. ETHICON, INC., ET AL.  
12 Civil Action No. 2:12-cv-00276

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13  
14 The deposition of DONALD R. OSTERGARD, M.D.,  
15 taken before Leeann Keenan, a Registered Merit  
16 Reporter, Certified Realtime Reporter, and a Notary  
17 Public in and for the County of Summit and the State  
18 of Colorado, at 7171 West Alaska Drive, Lakewood,  
19 Colorado, on Wednesday, March 9, 2016, at the hour  
20 of 9:01 a.m., pursuant to Notice.

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Donald R. Ostergard, M.D.

Page 4

1 APPEARANCES:

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Donald R. Ostergard, M.D.

Page 9

1 P R O C E E D I N G S

2 (Witness duly sworn.)

3 DONALD R. OSTERGARD, M.D.,

4 having been first duly sworn, was examined and  
5 testified as follows:

6 EXAMINATION

7 BY MR. SNELL:

8 Q. Good morning, Doctor.

9 A. Good morning, sir.

10 Q. We met briefly off the record. My name  
11 is Burt Snell. I'm from the law firm Butler Snow,  
12 and I represent Ethicon and Johnson & Johnson in  
13 this litigation.

14 I have a head cold, as I told you.  
15 So if you cannot understand my questions or if you  
16 need me to repeat something, please just tell me and  
17 I'll do my best. I'm going to try to drink a lot of  
18 water and coffee --

19 A. Yeah.

20 Q. -- to keep us on track.

21 Can you state your full name and  
22 your current address, please.

23 A. Donald R. Ostergard. The only address I  
24 have is a home address, and I'd just as soon not  
25 have that on the record.

Donald R. Ostergard, M.D.

Page 10

1 Q. That's fine. What city do you live in?

2 A. I live in Salida, S-A-L-I-D-A, Colorado.

3 Q. Colorado, okay.

4 A. I do have an office address in Torrance,  
5 California at the Harbor UCLA Medical Center.

6 Q. Are you still affiliated with the Harbor  
7 UCLA Medical Center?

8 A. I am professor in residence there, yes.

9 Q. What does "professor in residence" mean?  
10 That's a term I've never heard before.

11 A. Okay. It basically means that someone  
12 else is paying my salary. The university or the  
13 county are not paying a salary. So it's almost like  
14 a volunteer faculty.

15 Q. Okay. And how long have you held that  
16 position?

17 A. It's been, I think, a couple years at  
18 this point, approximately.

19 Q. Do you no longer treat patients?

20 A. I do not have a practice.

21 Q. Okay. When's the last time you treated a  
22 patient for pelvic organ prolapse?

23 A. Well, I assisted some of the fellows at  
24 Harbor UCLA a few years ago.

25 Q. Can you be more specific? When you say

Donald R. Ostergard, M.D.

Page 11

1 "a few years ago," are you talking about 2010?  
2 2013?

3 A. Let's see. Probably 2014, 2015. I'm  
4 sorry, I don't remember exactly.

5 (Exhibit No. 1 was marked.)

6 Q. I've marked as Exhibit 1 a copy of the  
7 amended notice of deposition. It's similar to the  
8 prior notice, except it just has more names. I saw,  
9 when I looked at the original notice, you had been  
10 disclosed as a general expert in some cases, and  
11 they did not have that on there.

12 So that's the purpose of the  
13 amended notice, and also to indicate that we're here  
14 taking your deposition regarding your general expert  
15 report today, as opposed to the case specific  
16 depositions that, as I understand it, will be later.

17 A. That's correct.

18 MS. THOMPSON: And just for the  
19 record, we filed objections to the notice.

20 MR. SNELL: Okay.

21 MS. THOMPSON: Hopefully you are  
22 aware of that.

23 MR. SNELL: I did see -- I have not  
24 been able to look it up, but I did see it on my  
25 phone that objections were filed.



Donald R. Ostergard, M.D.

Page 12

1 Q. Can you tell me what, if anything, did  
2 you do to prepare for today's deposition, Doctor?

3 A. I reviewed lots of records, depositions,  
4 and the report pretty much outlines what I reviewed.

5 Q. When you say reviewed records, are you  
6 speaking to medical records or some other type of  
7 document?

8 A. The Ethicon records primarily. Of course  
9 medical literature as well. That's all outlined in  
10 the report.

11 Q. Fair to say, did you go back and  
12 re-review every piece of literature or document or  
13 deposition that you referenced in the body of your  
14 report?

15 A. Not every one, no.

16 Q. Any particular topic you refreshed  
17 yourself on in preparation for the deposition?

18 A. Mostly regarding Gynemesh.

19 Q. And how much time did you spend in  
20 preparation for today's deposition?

21 A. Since the --

22 MS. THOMPSON: Object to form.

23 A. Since the report was filed, do you mean?

24 Q. Well, how about we do it like that.  
25 Let's back up.

Donald R. Ostergard, M.D.

Page 25

1 we did use Gynemesh after that.

2 Q. What was the reason or reasons why you  
3 abandoned Gore-Tex?

4 A. Because of the complications we were  
5 having with it.

6 Q. Meaning erosion?

7 A. Erosion was the main one, yes.

8 Q. Sinus tract formation?

9 A. What formation?

10 Q. Do you have sinus tract formation with  
11 Gore-Tex?

12 A. Sinus tract. I would have to go back and  
13 look at our papers to see if that happened. I don't  
14 recall.

15 Q. And the Gore-Tex we're talking about is  
16 Gore-Tex mesh, right?

17 A. Yes, not Gore-Tex clothing.

18 Q. Or the Gore-Tex sutures that I know  
19 you've used over your career, true?

20 A. Yes.

21 Q. Okay. And the Gore-Tex mesh is a  
22 microporous mesh, true?

23 A. Yes, incredibly microporous.

24 Q. It's essentially like the Gore-Tex winter  
25 wear jackets you would have, true?

Donald R. Ostergard, M.D.

Page 26

1 A. Right. It's impermeable.

2 Q. Right. What is the pore size of the  
3 Gore-Tex mesh?

4 A. I really don't know, but I don't think  
5 you could call them pores.

6 Q. It's more like a sheet?

7 A. It's a sheet, yes.

8 Q. You understand the pore size of Gynemesh  
9 PS to be about 2 1/2 millimeters?

10 MS. THOMPSON: Object to form.

11 A. Well, that's what's been reported, but  
12 that totally ignores all the other pores, the ones  
13 that go down to maybe a third of a micron. So  
14 there's not a good idea that Ethicon actually  
15 acknowledged that, to put a number on pore size,  
16 because there are multiple pores involved.

17 Q. You understand in your field, by doctors  
18 who look at and characterize meshes, they tend to  
19 report the largest pore size for a mesh, true?

20 A. That's true.

21 MS. THOMPSON: Object to form.

22 A. That's not a correct characterization of  
23 the mesh.

24 Q. And if there is a pore that's 2 1/2  
25 millimeters, yet there's a strand of the filament

Donald R. Ostergard, M.D.

Page 27

1 running through the middle, what you're saying is  
2 then that makes the pore not 2 1/2, but 1.25 and  
3 1.25, hypothetically?

4 MS. THOMPSON: Object to form.

5 Q. I'm not locking you into those numbers.  
6 I'm just trying to understand what you're saying.

7 A. Well, if you look at the diagram of a  
8 pore --

9 Q. All right.

10 A. -- or of the mesh, let's say, you will  
11 see that there are multiple pores, and some of them  
12 are considered interstices. In other words, so  
13 small that a macrophage or a white blood cell can't  
14 get in, but the bacteria can. And that's one of the  
15 big disadvantages of the use of this form of  
16 material.

17 Q. When you used Gynemesh PS, did you notice  
18 any type of very high infection rate with it?

19 A. No, because we put it in sterilely.

20 Q. Now, you've heard of the Amid  
21 classification, obviously?

22 A. Yes, for what it's worth.

23 Q. Biologically the cells that are involved  
24 in the laying down of collagen, but also the cells  
25 that are responsible for attempting to handle

Donald R. Ostergard, M.D.

Page 28

1 bacteria, those are all cells that are so small you  
2 can only see them on a microscope, true?

3 A. Those cells require a microscope for  
4 visualization, yes.

5 Q. All right. And you mentioned a  
6 macrophage. You are aware that a macrophage can  
7 traverse around a mesh filament, true?

8 MS. THOMPSON: Object to form.

9 A. Yes, that has been published.

10 Q. You are --

11 A. They can change their shape to some  
12 degree to do that.

13 Q. Exactly. You are aware that macrophages  
14 can change their shape and emit, some people have  
15 called it, like an arm, pseudopod?

16 A. Pseudopod, that's right.

17 Q. True. Such that if there was a bacteria  
18 in the interstices, the macrophage can come sit down  
19 on top of it and emit pseudopod filled with  
20 bacteria, true?

21 MS. THOMPSON: Object to form.

22 A. Assuming that bacterium had not encased  
23 itself in bacterial slime. If it does that, then it  
24 cannot do as you described.

25 Q. However, if it does that and the

Donald R. Ostergard, M.D.

Page 33

1       sacrocolpopexy?

2           A.       More often than not, I would just use the  
3       sacrocolpopexy.

4           Q.       Okay. You've read literature that  
5       indicates that there is a relation between the  
6       apical part of the vagina as well as the anterior  
7       and posterior walls?

8           A.       I don't understand your question.

9           Q.       Are you generally familiar with  
10       literature that indicates, going back to  
11       publications by John DeLancey, that if there's a  
12       multicompartment defect, including the apex, the  
13       most important part to try to put back anatomically  
14       is the apex because it has an effect on the anterior  
15       and posterior walls if not treated?

16          A.       Typically that's true, yes.

17          Q.       And is that something you subscribe to?

18          A.       Yes.

19          Q.       Did you use Gynemesh PS transvaginally?

20          A.       No.

21          Q.       Did you use any meshes transvaginally?

22          A.       The only meshes that I have used are  
23       Gore-Tex.

24          Q.       Gore-Tex.

25          A.       And polypropylene mesh for suburethral

Donald R. Ostergard, M.D.

Page 34

1 slings.

2 Q. You never freehand cut the Gynemesh or  
3 Gynemesh PS and sutured in place for prolapse  
4 repair?

5 A. No.

6 Q. The polypropylene mesh you used for  
7 stress incontinence was the TVT, true?

8 A. No.

9 Q. Do you recall giving deposition testimony  
10 that you've used the TVT, but you alter the approach  
11 by making a wider dissection near the urethra, and  
12 you don't pass the trocars fully from the top all  
13 the way down to the bottom. You stop when you hit  
14 your finger. Do you not recall giving that  
15 testimony?

16 A. I did that, but not with the TVT.

17 Q. Have you ever used the TVT?

18 A. No.

19 Q. What polypropylene mesh slings have you  
20 used for stress incontinence?

21 A. The SPARC. I've used the components of  
22 the SPARC, but not as directed by AMS. I did it the  
23 way you described, basically.

24 Q. Okay. And did you find that use of SPARC  
25 to be safe and effective transvaginally?

Donald R. Ostergard, M.D.

Page 35

1           A.     In the absence of data, I'm not sure I  
2     can answer that question because I did not follow-up  
3     these patients to the point where I can make a  
4     definitive statement to that regard.

5           Q.     Per your general recollection, do you  
6     have any reason to believe that your patients did  
7     not do well that you treated with SPARC?

8           A.     In the absence of data, I suppose. But  
9     if I don't have any objective information to verify  
10    that, I really can't tell you.

11          Q.     Are you aware that the pore size of TVT  
12    is larger than the pore size of SPARC?

13          A.     I don't recall --

14                   MS. THOMPSON: Object to form.

15          A.     -- specifically.

16          Q.     Are you aware that -- you know there's a  
17    Cochrane review on slings, just like the Cochrane  
18    review you brought about prolapse mesh?

19          A.     Yes, there's Cochrane reviews on  
20    virtually everything.

21          Q.     I think the lead author of that sling  
22    Cochrane review was Ogah, O-G-A-H. Are you  
23    generally familiar with that Cochrane review?

24          A.     Yes, generally, but I would have to see  
25    it again at this point to make any comments on it



Donald R. Ostergard, M.D.

Page 36

1 definitively.

2 Q. I'm going to ask you to do this: Do you  
3 have a general recollection that when top-to-bottom  
4 polypropylene slings, like SPARC, are compared to  
5 bottom-to-top, like TVT, the slings like SPARC had  
6 lower efficacy and higher exposure rates?

7 A. Well, since I didn't do it as a SPARC  
8 procedure, we're not talking about what I did in  
9 comparison to the TVT.

10 Q. But you still left a polypropylene  
11 midurethral sling implanted transvaginally in the  
12 patients, true?

13 A. That is true.

14 Q. What was your exposure rate with the  
15 SPARC, if you track that at all?

16 A. I did not track anything regarding these  
17 patients.

18 Q. Okay. When did you learn to do the  
19 sacrocolpopexy?

20 A. When?

21 Q. Yes. Is that something you learned in  
22 your residency or once you got out in practice?

23 A. I'm not really sure. I certainly used it  
24 in my practice, but I don't recall specifically  
25 being taught it in residency.

Donald R. Ostergard, M.D.

Page 37

1 Q. Okay. Sacrocolpopexy has been out since  
2 the 1960s, true?

3 A. Yes, I would assume.

4 Q. When did you begin doing  
5 sacrocolpopexies? You can just tell me the decade.

6 A. Probably in the '80s.

7 Q. Okay. Did you find that there was  
8 adequate tissue integration with the Gynemesh PS  
9 that you placed?

10 A. I never evaluated the patient for tissue  
11 integration.

12 Q. Was there adequate suspension of the  
13 prolapsed organs, in your opinion, with the Gynemesh  
14 PS you placed?

15 A. Yes.

16 Q. What was your rate of exposure with the  
17 Gynemesh PS, if you tracked it at all?

18 A. I did not track them, so I cannot tell  
19 you.

20 Q. For the Gore-Tex mesh you used, did you  
21 track those complication rates?

22 A. Gore-Tex for?

23 Q. For prolapse repair.

24 A. For prolapse repair. We tracked them for  
25 suburethral slings. That was all.

Donald R. Ostergard, M.D.

Page 38

1 Q. Okay. Have you ever had to go in and  
2 remove a Gynemesh PS mesh that got infected?

3 A. No.

4 MS. THOMPSON: Object to the form.

5 Q. Can you give me your best estimate of how  
6 many Gynemesh PS meshes you placed in your career?

7 A. You want a guess? That's what it's going  
8 to be.

9 Q. I don't want a guess. I want your best  
10 estimate. So if you say, you know, on average I  
11 did, you know, 20 or 30 sacrocolpopexies a year, the  
12 majority of those were Gynemesh PS. I'm just  
13 looking for your best estimate.

14 A. Yeah.

15 Q. I'm not going to hold you to a number. I  
16 will promise you that. I'm asking you, so let me  
17 just make the record completely clear, can you give  
18 me your best estimate as to the number of Gynemesh  
19 PS meshes you placed over your career?

20 MS. THOMPSON: Object to form.

21 A. I'm not even sure I can even characterize  
22 it as an estimate, but probably in the range of 50  
23 to 100.

24 Q. Okay. I think earlier you mentioned you  
25 worked with training residents at UCLA Harbor View a

Donald R. Ostergard, M.D.

Page 39

1 couple years back?

2 A. I primarily was training the fellows.

3 Q. The fellows, sorry.

4 Were those fellows using the TVT  
5 sling made by Ethicon?

6 A. I do not believe so.

7 Q. They were using SPARC?

8 A. No, sir.

9 Q. What sling were they using, if you know?

10 A. It was the, I believe the Boston  
11 Scientific Advantage sling.

12 Q. That's a polypropylene sling?

13 A. Yes, sir.

14 Q. When did you begin using the SPARC sling?

15 MS. THOMPSON: Object to form.

16 A. I know I used it before I closed my  
17 practice in Long Beach.

18 THE WITNESS: I'm sorry, I'm not  
19 speaking up. My voice, same cold he has  
20 (indicating).

21 A. The -- again, as best estimate, 2010.

22 Q. During your residency, can you tell me  
23 what were the prolapse repairs you were trained on,  
24 besides the anterior and posterior colporrhaphy?

25 A. The procedures you mentioned, plus the

Donald R. Ostergard, M.D.

Page 40

1 plication of the uterosacral ligaments as part of a  
2 prolapse repair for the apex of the vagina,  
3 primarily posthysterectomy.

4 Q. I'm familiar with the term "uterosacral  
5 ligament suspension." Is that the same thing as  
6 what you just referenced as a uterosacral plication,  
7 or are they different?

8 A. I think you probably would say they were  
9 different, since the suspension you're talking about  
10 is usually done at the level of the spine,  
11 approximately. And sutures are placed there and  
12 then into the vagina.

13 We're talking about a -- very much  
14 a lower plication of the uterosacral ligaments.  
15 It's called a McCall culdoplasty.

16 Q. Okay. I've heard of that. So you're  
17 going more lateral as opposed to high up?

18 A. No, we're not going lateral. We're  
19 following the uterosacral ligaments and placing  
20 sutures in it.

21 Q. Okay.

22 A. The uterosacral ligament that we've just  
23 detached from the uterus.

24 Q. Okay.

25 A. And plicating that and obliterating the

Donald R. Ostergard, M.D.

Page 101

1 Q. For purposes of my question --

2 A. As --

3 Q. For purposes of my question, I'm not  
4 focused on him. I want to go back to my question.

5 So are there any Level 1  
6 randomized control trials that report degradation  
7 with Gynemesh PS?

8 MS. THOMPSON: Object to form.

9 A. There's no randomized control trials. I  
10 mean, no one has ever taken 100 patients with the  
11 mesh there, extracted that mesh from those 100  
12 patients and looked at it. That would be something  
13 no Human Subjects Committee would approve, so it's  
14 not possible to do such a study. So to answer your  
15 question, there is no Level 1 evidence --

16 Q. Okay.

17 A. -- from such a study designed that way.

18 Q. So the surface cracking that you  
19 mentioned, a study has not been done yet which shows  
20 whether that is a finding in patients who have good  
21 prolapse repair and no complications as compared to  
22 patients who have complications, true?

23 A. Well, the mesh is --

24 MS. THOMPSON: Object to form.

25 A. -- available for analysis. It comes from

Donald R. Ostergard, M.D.

Page 102

1 patients who have a complication severe enough to  
2 remove that mesh. It couldn't be done otherwise.  
3 No Human Subjects Committee would approve that.

4 Q. What I'm saying is the surface cracking  
5 that's been reported by some folks, that could be a  
6 normal finding in asymptomatic patients with good  
7 cure of their prolapse and no complications because  
8 the study -- a study hasn't been done with that type  
9 of control to show whether this cracking is actually  
10 causal of any of the complications, true?

11 MS. THOMPSON: Object to form.

12 A. At this point in time, we cannot  
13 specifically relate degradation to complications in  
14 patients. The only time we are able to see this  
15 degradation, and I think this was mentioned in one  
16 of Ethicon's patients -- oh, it is attached to one  
17 of the expert reports, or is mentioned that on  
18 removal of the mesh, it fell apart. It fell apart,  
19 so all the mesh could not be taken out.

20 And this has been my experience as  
21 well. The mesh frequently does that. You can't get  
22 it all out. And even Ethicon has likened this to  
23 rebar in concrete. You can't get the rebar out.  
24 And now these patients have remaining polypropylene  
25 mesh in them, which can at some time in the future

Donald R. Ostergard, M.D.

Page 103

1       cause problems for them.

2                               And I hate to bring up the cancer  
3       issue, but there are now two neoplasms that have  
4       been described with polypropylene mesh. And they'll  
5       actually be published formally next month, and so  
6       these patients have this knowledge if that work gets  
7       caught in the media attention and the media says  
8       that it causes cancer. Well, there's no proof it  
9       causes cancer. It's just an association at this  
10      point. But these patients then are going to be  
11      clamoring to have their mesh taken out so they don't  
12      have to worry about the possibility of cancer  
13      sometime in the future, and I think this is a major  
14      issue.

15               Q.       So I'm going to respectfully move to  
16      strike some of your answer that went beyond my  
17      question.

18                       MR. SNELL: Can you read back his  
19      answer where he says, "At this point we cannot  
20      relate degradation to complications." I think  
21      something like that.

22                               (Record read as follows:  
23                               at this point in time, we cannot  
24                               specifically relate degradation  
25                               to complications in patients.



Donald R. Ostergard, M.D.

Page 104

1                   The only time we are able to see  
2                   this degradation, and I think  
3                   this was mentioned in one of  
4                   Ethicon's patients -- oh, it is  
5                   attached to one of the expert  
6                   reports, or is mentioned that on  
7                   removal of the mesh, it fell  
8                   apart. It fell apart, so all the  
9                   mesh could not be taken out.)

10                   MR. SNELL: So strike everything  
11                   after that.

12                   Q.       The reason I'm doing that, I didn't see  
13                   in your expert report that you issued opinions about  
14                   cancer.

15                   A.       No, these hadn't been published at the  
16                   time that that report was written.

17                   Q.       No, I'm talking about --

18                   A.       But they're on my reliance materials.

19                   Q.       Well, I didn't see that you issued  
20                   opinions that you plan to testify at trial that  
21                   Gynemesh PS causes cancer or sarcoma.

22                   A.       I would never testify that it causes  
23                   cancer. All I could testify to is it has been found  
24                   in association with cancer.

25                   Q.       At a break I'm going to look at your

Donald R. Ostergard, M.D.

Page 105

1 report because if it's not in the report, then I'm  
2 going to respectfully move to strike.

3 But if you disclosed in here that  
4 you plan to talk about cancer or sarcoma, then we'll  
5 get into that a little bit.

6 A. I don't think it's in the report.

7 Q. Okay.

8 THE WITNESS: Can we take a real  
9 quick break?

10 MR. SNELL: Absolutely.

11 THE WITNESS: Thank you.

12 (Break from 11:33 a.m. to  
13 11:40 a.m.)

14 (Exhibit No. 14 was marked.)

15 BY MR. SNELL:

16 Q. I've handed you Exhibit 14, Doctor, which  
17 is a paper by Withagen and other authors concerning  
18 sexual functioning after Prolift. Do you see that?

19 A. Yes, I do.

20 Q. Is this a study you're familiar with?

21 A. It's an abstract I'm familiar with, yes.

22 Q. So preoperatively in these patients who  
23 were treated Prolift, it was reported that their  
24 prolapse significantly interfered with their sexual  
25 function, correct?

Donald R. Ostergard, M.D.

Page 113

1 Q. What types of surgeries?

2 A. Pardon me?

3 Q. What types of surgeries?

4 A. Either abdominal or vaginal.

5 Q. In a hysterectomy, or...

6 A. I don't remember.

7 Q. Let me just ask you: So what surgical  
8 procedures did you use Prolene sutures in?

9 A. I don't remember specifically.

10 Q. Okay.

11 A. It was one of the choices we had.

12 Q. For your prolapse surgeries, do you  
13 have -- when you use sutures, do you have a personal  
14 preference?

15 A. Yes.

16 Q. What was that?

17 A. Delayed absorbable sutures.

18 Q. Did you use delayed absorbable sutures --  
19 let me back up. I'm not sure if I asked you this  
20 question.

21 Did you do sacrospinous ligament  
22 fixation for prolapse?

23 A. Yes.

24 Q. Okay. And you also did uterosacral  
25 ligament suspension for prolapse as well, true?

Donald R. Ostergard, M.D.

Page 114

1           A.     From the standpoint of a McCall  
2     culdoplasty, yes.

3           Q.     Did you use permanent or delayed  
4     absorbable sutures for those procedures?

5           A.     Those are permanent sutures.

6           Q.     What prolapse surgeries did you prefer  
7     the delayed absorbable sutures for?

8           A.     Typically colporrhaphies.

9           Q.     When you did the sacrospinous ligament  
10    fixation, what suture did you use?

11          A.     I think we used the braided polyester  
12    suture probably most commonly, Ethibond.

13          Q.     Would you have used that same braided  
14    polyester permanent suture for the uterosacral  
15    ligament suspensions as well?

16          A.     Yes, likely.

17          Q.     You don't consider yourself a  
18    biomaterials expert?

19          A.     A biomaterials expert, no.

20          Q.     There's been reports in the literature  
21    that the surface cracking seen on some of the  
22    explants could be due to a biologic proteinaceous  
23    material. Are you familiar with that?

24          A.     Yes.

25                   MS. THOMPSON: Object to form.

Donald R. Ostergard, M.D.

Page 115

1 A. I've seen some people postulate that.

2 Q. Have you done any testing to evaluate  
3 that postulation?

4 MS. THOMPSON: Object to form.

5 A. I've done SEM of polypropylene, and  
6 significant biofilm was not apparent.

7 Q. That wasn't the Gynemesh PS, though,  
8 right?

9 A. It was not.

10 Q. What was this done in connection with?  
11 What type of polypropylene?

12 A. I'm sorry?

13 Q. That was my fault.

14 A. No, my hearing aid.

15 Q. The polypropylene you did look at, what  
16 was that polypropylene?

17 A. Which products?

18 Q. (Nodding head.)

19 A. Uphold.

20 Q. How many specimens did you evaluate of  
21 that Uphold?

22 A. How many specimens?

23 Q. Yes.

24 A. There was just one specimen, one specimen  
25 taken out of the patient.

Donald R. Ostergard, M.D.

Page 116

1 Q. Okay. You didn't have a control group  
2 that you used and compared it to?

3 MS. THOMPSON: Object to form.

4 A. We did look at pristine sutures, as I  
5 recall -- excuse me, pristine mesh as well.

6 Q. But not mesh that had been in the human  
7 body?

8 A. Mesh that's not been in the human body,  
9 correct.

10 Q. So my question is for this one specimen,  
11 you didn't have a control of mesh that had been in  
12 the human body to compare the two, true?

13 A. No, there was only one specimen.

14 Q. Okay. Do you believe that you're an  
15 expert in polymer chemistry?

16 A. No.

17 Q. Have you read in the literature that  
18 there can be a cross-linking when pathologists use  
19 formalin for preservation?

20 MS. THOMPSON: Object to form.

21 A. Excuse me, there can be what?

22 Q. A cross-linking of proteins when  
23 pathologists use formalin for preservation of  
24 specimen?

25 MS. THOMPSON: Objection.

Donald R. Ostergard, M.D.

Page 117

1 Q. Have you read that, or not?

2 A. It seems like I have, yes.

3 Q. Do you consider yourself an expert in  
4 that?

5 A. No.

6 Q. I take it you don't consider yourself to  
7 be an expert in pathology either?

8 A. I'm not --

9 MS. THOMPSON: Object to form.

10 A. -- a trained pathologist, if that's what  
11 you mean.

12 Q. Would you agree that the high rates of  
13 anatomic efficacy seen with Prolift is inconsistent  
14 with a theory of degradation?

15 MS. THOMPSON: Object to form.

16 A. Inconsistent with what?

17 Q. A theory of degradation.

18 A. No, because mesh can degrade and leave  
19 scarification behind. And so you'll still have the  
20 same effect, irregardless of the fact that  
21 degradation has occurred.

22 Q. Has that been tested, to your knowledge,  
23 as to whether the sustained anatomic efficacy is  
24 because of scarring or the mesh?

25 MS. THOMPSON: Object to form.

Donald R. Ostergard, M.D.

Page 118

1 A. Because of what?

2 Q. Because of the scarring or because of the  
3 mesh providing support?

4 A. That's a study that's almost impossible  
5 to do.

6 Q. You haven't seen anyone try to do that  
7 study in the literature?

8 A. No, I haven't.

9 MR. SNELL: Let's take a break. Let  
10 me organize myself.

11 THE WITNESS: Okay.

12 (Whereupon, a lunch break was had  
13 from 12:03 p.m. to 1:08 p.m.)

14 EXAMINATION (CONTINUED)

15 BY MR. SNELL:

16 Q. In your expert report, Doctor, at pages 3  
17 and 4 you list some other meshes; Polyform, POP  
18 Mesh, Pelvitex, and TiMesh. Do you see that?

19 A. I think I did list them. I don't see  
20 them right now.

21 Q. (Indicating).

22 A. Oh, okay.

23 Q. And then if you flip the page  
24 (indicating).

25 A. Pelvitex, TiMesh.



Donald R. Ostergard, M.D.

Page 119

1 Q. My question to you, Doctor, is have any  
2 of those meshes been studied in patients with  
3 prolapse in randomized control trials?

4 A. I don't know.

5 Q. Have you seen any studies in women who  
6 have undergone implantation of those meshes for the  
7 treatment of pelvic organ prolapse?

8 A. Not that I recall.

9 Q. We saw that there are various studies  
10 with Gynemesh PS, some of them even going out to  
11 five or seven years, correct?

12 A. Yes.

13 Q. Would you consider five-year studies to  
14 be long-term studies?

15 A. Yes.

16 Q. As far as you're aware, those other  
17 meshes, there are no long-term studies in the  
18 treatment of pelvic organ prolapse for those, true?

19 A. I don't believe so.

20 Q. You have not seen any prospective studies  
21 that show that Gynemesh PS has a statistically  
22 significant increased risk of any complication  
23 compared to those other meshes; Polyform, POP Mesh,  
24 Pelvitex and TiMesh, true?

25 A. I'm not aware of any comparative studies

Donald R. Ostergard, M.D.

Page 120

1 with them.

2 Q. We've talked about Gynemesh PS, and it  
3 has demonstrated anatomic superiority to native  
4 tissue, according to Level 1 randomized control  
5 trials, true?

6 MS. THOMPSON: Object to form.

7 A. Yes, in those individual studies.

8 Q. For these other meshes you reference --  
9 Polyform, POP Mesh, Pelvitex, TiMesh -- there is no  
10 similar data that you're aware of demonstrating that  
11 benefit, true?

12 A. That is correct.

13 MS. THOMPSON: Object to form.

14 Q. Have you seen any studies reporting rates  
15 of a mesh exposure or dyspareunia with those other  
16 meshes?

17 A. No, I have not.

18 Q. It is not your opinion that those are  
19 suitable alternative meshes to Gynemesh PS, true?

20 A. No, those were just ones that were  
21 compared to these particular studies.

22 Q. And you have seen no demonstrable benefit  
23 to those meshes compared to Gynemesh PS in women,  
24 true?

25 A. I don't think there are any publications

Donald R. Ostergard, M.D.

Page 121

1 on these other meshes.

2 Q. TiMesh, do you even know if that's been  
3 FDA cleared in this country?

4 A. I haven't -- I don't have information one  
5 way or the other.

6 Q. Have you looked at the regulatory status  
7 of any of those alternative prolapse meshes?

8 A. I don't know that they are alternative  
9 prolapse meshes. They were just exemplar just to  
10 compare Gynemesh to.

11 Q. Let me rephrase then. Thank you for that  
12 correction.

13 For those exemplar other meshes,  
14 did you investigate the regulatory status of them  
15 for the treatment of pelvic organ prolapse in women  
16 in this country?

17 A. No, I did not.

18 Q. There are no studies in patients that  
19 show that having a mesh with a larger pore size than  
20 Gynemesh PS leads to a statistically significant  
21 reduction in complications, true?

22 MS. THOMPSON: Object to form.

23 A. I think that's correct.

24 Q. You have not seen any randomized control  
25 trials that demonstrate that non-mesh native tissue

Donald R. Ostergard, M.D.

Page 122

1 has a statistically significant better anatomic  
2 benefit compared to Prolift or Gynemesh PS, true?

3 MS. THOMPSON: Object to form.

4 A. I'm wondering about one study, but  
5 without seeing it I can't comment.

6 Q. As you sit here today, you're not aware  
7 of any native tissue studies that show a  
8 statistically significant benefit in anatomic  
9 correction of prolapse compared to Gynemesh PS and  
10 Prolift, true?

11 A. As I'm sitting here today. That doesn't  
12 mean it doesn't exist.

13 Q. There are no randomized control trials  
14 that compare native tissue repairs to Gynemesh PS or  
15 Prolift that show that the native tissue repair has  
16 statistically significant better subjective benefits  
17 for prolapse symptoms, true?

18 MS. THOMPSON: Object to form.

19 A. I think that the studies that have been  
20 done have shown equal effectiveness in that regard,  
21 as far as the patient is concerned.

22 Q. So the answer then would be you're not  
23 aware of any studies showing native tissue having a  
24 statistically significant benefit over and above  
25 Prolift and Gynemesh PS for subjective patient

Donald R. Ostergard, M.D.

Page 143

1 comparisons.

2 Q. Is it correct then that you do not hold  
3 an opinion as to the adequacy of the Prolift IFU?

4 MS. THOMPSON: Object to form.

5 A. That is not correct.

6 Q. Are you basing -- well, do you -- do you  
7 have an opinion then that the Prolift IFU is  
8 inadequate in some form or fashion?

9 A. Yes. It doesn't warn against  
10 degradation, for one thing.

11 Q. So is there any regulatory standard that  
12 you have considered and factored in in that opinion?

13 A. A regulatory standard for devising an  
14 IFU?

15 Q. Yes.

16 A. I'm not sure if one exists.

17 Q. Is it your opinion that the IFU should --  
18 strike that.

19 Is it your opinion that the  
20 Prolift IFU should say that the mesh can degrade?

21 A. Yes, absolutely.

22 Q. And that is based on your personal  
23 opinion, true?

24 MS. THOMPSON: Object to form.

25 A. That is based on my opinion and my review

Donald R. Ostergard, M.D.

Page 144

1 of the information regarding degradation, when  
2 Ethicon knew about it and physicians should have  
3 been told. It's a very important factor in their  
4 decision whether or not to use a product.

5 Q. Have you done any study of physicians'  
6 attitudes as to whether surface degradation would  
7 lead them to not use Prolift?

8 MS. THOMPSON: Object to form.

9 A. I have not done any such studies.

10 Q. Hypothetically, if degradation were to  
11 occur, the clinical manifestation of that, if any,  
12 would be variable, true?

13 MS. THOMPSON: Object to form.

14 A. Well, since we don't know what the  
15 manifestations are, it's very difficult to answer  
16 that question.

17 Q. Fair enough.

18 When did you first look at the  
19 Prolift IFU?

20 A. When did I first look at it?

21 Q. Yes.

22 A. I can't tell you the exact date.

23 Q. Okay. You have looked at it, though?

24 A. I have looked at it, yes.

25 Q. Okay.

Donald R. Ostergard, M.D.

Page 145

1 MR. SNELL: Let's mark it.

2 (Exhibit No. 16 was marked.)

3 Q. 16.

4 A. Thank you.

5 MS. THOMPSON: Thank you.

6 Q. We've talked about a whole lot of  
7 different complications that can occur with the  
8 different prolapse surgeries.

9 Mesh exposure/erosion, that's a  
10 unique risk with mesh, correct?

11 A. Quite unique.

12 Q. Conversely, you can have suture erosions  
13 with non-mesh repair, true?

14 A. Which are typically of no consequence,  
15 whereas the erosions that you're speaking of do have  
16 consequences.

17 Q. There can be contraction with Prolift,  
18 correct?

19 A. Yes.

20 Q. And there's also tissue contraction with  
21 native tissue, true?

22 MS. THOMPSON: Object to form.

23 A. Depends on how the surgery is done. It  
24 can be avoided, generally.

25 Q. Well, if there's scarring, there's going

Donald R. Ostergard, M.D.

Page 146

1 to be tissue contraction. I thought we agreed to  
2 that?

3 A. I'm sorry, I'm not hearing.

4 MS. THOMPSON: Object to form.  
5 Misstates his testimony.

6 Q. If there's scarring, there is going to be  
7 tissue contraction?

8 A. Yes. But the type of contraction you're  
9 talking about is not something that generally  
10 bothers a patient.

11 Q. Well, what we've discussed is that with  
12 contraction, the potential outcome of that is pain,  
13 that you identified, right?

14 A. Not with --

15 MS. THOMPSON: Object to form.

16 A. -- native tissue repairs, no.

17 Q. Have you -- let me back up.

18 Regardless of what the contraction  
19 leads to, there is no data showing a significantly  
20 higher rate of those complications with Prolift  
21 compared to non-mesh repair --

22 MS. THOMPSON: Object to form.

23 Q. -- true?

24 A. I think we've been over this already.

25 Q. I'm just trying to make sure that we're



Donald R. Ostergard, M.D.

Page 147

1 not changing now.

2 A. I'm not going to change.

3 Q. So let's look at the Prolift IFU.

4 Actually, on the first page you see it says,

5 "Training on the use of Prolift is recommended and  
6 available."

7 A. That's too bad it doesn't say it's  
8 required.

9 Q. Well, are you --

10 A. That's a defect in this.

11 Q. Are you aware of any regulatory standard  
12 that requires a surgeon to undergo specific training  
13 of a device before he or she can use that device?

14 MS. THOMPSON: Object to form.

15 A. Physicians typically undergo training for  
16 any type of surgery they do before they do that  
17 surgery. Why should mesh be an exception?

18 Q. So if a surgeon wants to use a specific  
19 medical device, are you aware of any regulatory  
20 standard or requirement that they be trained on that  
21 particular device?

22 MS. THOMPSON: Object to form.

23 A. I am not aware of any regulatory  
24 standard, but it does not mean that Ethicon or any  
25 other company can't go beyond and make sure that the

Donald R. Ostergard, M.D.

Page 148

1 physicians that are going to use their devices are  
2 adequately trained to put the devices in safely.

3 Q. Well, you do know that Ethicon offered  
4 training, true?

5 A. Yes, they offer it.

6 Q. You are aware that AUGS has come out with  
7 guidelines for credentialing surgeons in doing  
8 prolapse surgeries, true?

9 A. Yes, I've seen that.

10 Q. Part of what they recommend is that, hey,  
11 surgeons go do training, true?

12 A. Absolutely.

13 Q. Are you saying it's a bad thing that  
14 Ethicon offered professional education training for  
15 Prolift?

16 A. Definitely not.

17 MS. THOMPSON: Object to form.

18 A. The bad thing is that it wasn't required,  
19 since this was for something that was brand new to  
20 the gynecologic and urological communities. They  
21 didn't know anything about how to place these  
22 meshes, and the insertion technique for the Prolift  
23 is extremely, extremely complicated.

24 Q. You didn't undergo any specific industry  
25 training when you decided to start using mesh to

Donald R. Ostergard, M.D.

Page 149

1 treat sacrocolpopexies, true?

2 A. I had done the procedure using other  
3 things before.

4 Q. You felt competent --

5 A. So it's simply a matter of substituting  
6 something else for what I had been doing.

7 Q. You felt competent in your ability to  
8 carry out that mesh procedure safely, without going  
9 to Ethicon or some other manufacturer and saying,  
10 "Can you train me on this," true?

11 A. Since it's the same procedure that I've  
12 done for many years before, I don't see any reason  
13 to do that. This is brand new.

14 Q. Well, what Prolift --

15 A. If I was going to start doing these, I  
16 would want to know everything about it and I would  
17 definitely go to training to see what is  
18 recommended. No question.

19 Q. And your understanding is that with  
20 Prolift, the anterior Prolift, the mesh goes out to  
21 the arcus tendineus, true?

22 A. Yes.

23 Q. And that's a route of prolapse repair  
24 that had been in existence before Prolift, true?

25 A. Yeah, but --

Donald R. Ostergard, M.D.

Page 198

1           A.     I can't point to any specific thing at  
2     this point.

3           Q.     So on a scale of 1 to 10, with 1 being  
4     just piss-poor shoddy and 10 being perfect, where  
5     would you put Ethicon's IFU and professional  
6     education program?

7                     MS. THOMPSON:   Object to form.

8           A.     The big problem is the omission of the  
9     things that I've already talked about.  So I would  
10    have to say that this is a good attempt, but there  
11    are very important things that have been left out.

12                    MR. SNELL:   All right.  Let's take a  
13    break and let me just wrap it up.

14                   MS. THOMPSON:   Sure.  And then I'm  
15    probably going to need a little break between when  
16    you finish and redirect.  Unless you just have a  
17    couple questions, then we can take the whole break  
18    at the same time.

19                   MR. SNELL:   I'll do whatever you want  
20    to do.

21                   MS. THOMPSON:   Oh, my gosh, you're so  
22    agreeable.

23                   MR. SNELL:   I am very accommodating.

24                                   (Break from 2:58 p.m. to  
25                                   3:06 p.m.)

Donald R. Ostergard, M.D.

Page 199

1 BY MR. SNELL:

2 Q. You had mentioned the cancer thing  
3 earlier. I'm just going to ask you a couple  
4 questions about that and see if we can't be done  
5 with it. Because I don't really think it was within  
6 the scope of your report, but you did raise it.

7 So as we sit here today, there are  
8 no studies in women that demonstrate that Gynemesh  
9 PS or Prolift causes cancer, true?

10 A. No causation has been established, only  
11 association.

12 Q. And the truth of the matter is an  
13 association has not been established because there  
14 have been no epidemiologic studies that show a  
15 statistically significant increased risk of any  
16 cancer or seroma formation in women, when adjusted  
17 for potential confounding factors, as compared to  
18 the population background, true?

19 A. Well, since there's only been one case  
20 reported, yes.

21 Q. Are you familiar with -- there's been a  
22 couple epidemiologic studies that have been  
23 published recently, looking at cancer rates in women  
24 treated with polypropylene midurethral slings?

25 A. Yes.

Donald R. Ostergard, M.D.

Page 200

1 Q. I think the most recent one was a paper  
2 by a Dr. Linder. It was in the International  
3 Urogynecology Journal just last month, a cohort of 2,474  
4 women.

5 A. Yes.

6 Q. Is that a paper you've read?

7 A. Yes. The time period is too short,  
8 however, to make any conclusions.

9 Q. Well, what they found was that there was  
10 about a 2 percent rate of background cancer in those  
11 patients, true?

12 A. Something like that, yes.

13 Q. And there were only two cases out of the  
14 entire cohort where the cancer was diagnosed after  
15 sling implantation. Do you recall that?

16 A. But not associated with the sling.

17 Q. Correct. The rate was 0.08 percent.

18 A. It takes 20, 30 years for a  
19 carcinogenesis to be effective. So we haven't seen  
20 the last of this, I'm sure.

21 Q. But the fact of the matter is obviously  
22 vaginal bladder cancers, those are naturally  
23 occurring in the background, as one can see in that  
24 Linder paper, where 2 percent of the patients had a  
25 preexisting history of cancer, correct?

Donald R. Ostergard, M.D.

Page 201

1           A.     There are background rates of neoplasia,  
2     yes.

3           Q.     And you have seen no reliable  
4     epidemiologic studies in women that show that the  
5     rate of cancer with the polypropylene mesh is  
6     statistically significantly higher than the  
7     background, when adjusted for other confounders,  
8     true?

9           A.     There's been no such paper.

10          Q.     And you would agree with authors who have  
11     written on this topic, that have stated in order to  
12     establish an association between polypropylene mesh  
13     and cancer one has to be -- it has to be  
14     demonstrated by more than mere case reports, true?

15          A.     It has to be demonstrated by more than a  
16     mere case report? Is that what you said?

17          Q.     More than mere case reports.

18          A.     Well, the case report is the starting  
19     place to call people's attention to this may be  
20     possible.

21          Q.     Right.

22          A.     And one of the problems that I've noticed  
23     in reviewing cases, that when specimens are excised  
24     from a patient, frequently there's never histology  
25     to them. So they may be throwing away preneoplastic

Donald R. Ostergard, M.D.

Page 202

1 or neoplastic conditions, and they don't even know  
2 it.

3 Q. They may be throwing away totally benign?

4 A. Absolutely. I sure hope so.

5 Q. And we don't know because we don't have  
6 those data, true?

7 A. They have not been examined  
8 histologically, so we don't know.

9 Q. I believe you made mention of toxins in  
10 your report. Are you aware of any studies in women  
11 that show that any toxins lead to significantly  
12 higher complication rates for Prolift or Gynemesh  
13 PS?

14 A. There are no studies in relation to  
15 polypropylene. We don't even know for sure what the  
16 toxins are. They haven't been measured, and we do  
17 not know if there is increase in adverse events  
18 because of it.

19 Q. Okay.

20 A. We have no way, no way to know at this  
21 point.

22 Q. Okay.

23 MR. SNELL: That's all the questions  
24 I think I have. I'll pass the witness.

25 MS. THOMPSON: Okay. Let me go ahead



Donald R. Ostergard, M.D.

Page 203

1 and take a break.

2 MR. SNELL: Okay.

3 MS. THOMPSON: And then I'll be ready  
4 to go all the way through without having to stop.  
5 So break.

6 THE WITNESS: Okay.

7 (Break from 3:12 p.m. to  
8 3:23 p.m.)

9 (Exhibit Nos. 21 through 46 were  
10 marked.)

11 EXAMINATION

12 BY MS. THOMPSON:

13 Q. Dr. Ostergard, did you review and  
14 critically assess all the literature that you found  
15 on Gynemesh and Prolift, regardless of whether it  
16 was favorable or unfavorable to your opinions?

17 A. Yes, I did.

18 Q. I want to go through just a few, not all,  
19 of the literature that counsel showed you earlier.  
20 But let's start with the Francis and Jeffcoate  
21 article from the Journal of Obstetrics and  
22 Gynecology. I don't remember the exhibit number,  
23 unfortunately. We're going to mess all these up for  
24 Leeann.

25 A. 1 or 2. It was actually 7. The staples

REPORTER'S CERTIFICATE

I, LEEANN L. KEENAN, Registered Merit Reporter and Certified Realtime Reporter within Colorado, appointed to take the deposition of DONALD R. OSTERGARD, M.D., do hereby certify that before the deposition he was duly sworn by me to testify to the truth; that the deposition was taken by me at 1801 California Street, Suite 5100, Denver, Colorado; then reduced to typewritten form herein; that the foregoing is a true transcript of the questions asked, testimony given and proceedings had.

I further certify that I am not related to any party herein or their Counsel, and have no interest in the result of this litigation.

In witness hereof I have hereunto set my hand this 28th day of March, 2016.

  
\_\_\_\_\_  
Leeann L. Keenan  
Registered Merit  
Certified Realtime  
and Notary Public



My commission expires June 8, 2016